EC441: Lab 1

Daniel Andronov

Friday 23rd September, 2016

1   Introduction to Traceroute

Question 1
  Solution: 10 Hops

Question 2
  Solution: The traceroute seems to indicate that the packet traved through the "altas"
and "leaseweb" ISP's.

Question 3
  Solution:

Question 4
  Solution: traceroute www.ucsd.ed -N 10

Question 5
  Solution:

Question 6
  Solution:

2   Wireshark Experiments

Question 7
  Solution: TCP, HTTP TLSv1.2

Question 8   Solution: The GET packet was timestamped at 34.144110620 and the OK
packet was timestamped at 34.149512754 sec, so the time in between the two packets was
0.005402134 sec or about 5.4 ms.

Question 9
  Solution: 128.119.245.12

Question 10
  Solution: 172.16.115.128

Question 11
  Solution: The IP addresses starting with 192.168.x.x and 172.16.x.x are two of three
sets of IP adresses reserved for private netorks, with the last reserved address is 10.x.x.x.
These three addresses ranges are called classes, with each having more addresses to support
connected devices than the last. They are ordered as below.

Address Range	Class Type	Maximum Devices
192.168.x.x	A	65,536
172.16.x.x - 172.31.x.x	B	1,048,576
10.x.x.x	C	16,777,216